

Attorney Docket No.: DRE0156US.NP
Inventors: Gogotsi and Barsoum
Serial No.: Not yet assigned
Filing Date: Herewith
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This listing of the claims will replace all prior versions and listings of claims in the application:

Listing of the claims:

Claim 1 (original): A method of producing a nanoporous carbide-derived carbon composition with a tunable pore structure and a narrow pore size comprising extracting metals from a carbide to produce a carbide-derived carbon, said extracting being performed with a halogen at an elevated temperature so that a nanoporous carbide-derived carbon composition with a tunable pore structure and a desired pore size is produced.

Claim 2(original): The method of claim 1 wherein the carbide is Ti_3SiC_2 .

Claim 3 (original): The method of claim 1 wherein the elevated temperature is chosen to produce a desired pore size.

Claim 4 (original): The method of claim 1 wherein the elevated temperature is between 200-1400°C.

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Claim 5 (original): The method of claim 1 wherein the elevated temperature is above 700°C.

Claim 6 (original): The method of claim 1 wherein the tunability of the pore size is achieved with 0.05 nm accuracy.

Claim 7 (currently amended): A nanoporous carbide-derived carbon composition produced by ~~any of the methods of claims 1 through 6~~ the method of claim 1.